

## Stevens County

8/31/2020

### Background Statistics<sup>1</sup>

Number of farms: 377

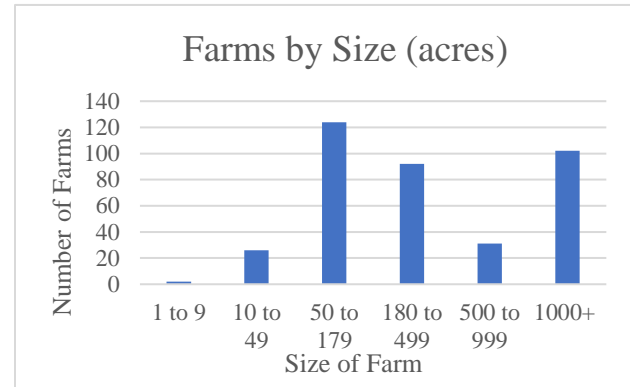
Average size: 1,208 acres

Land in farms: 455,494 acres

Average value of products sold per farm: \$903,358

Average net cash farm income per farm: \$156,150

1: Data from USDA 2017 Census of Agriculture



## Estimated Economic Contribution of Agriculture and Agriculture Related Sectors to the Stevens County Economy

### Methodology

The estimated economic contribution of agriculture and agriculture related sectors was computed using the most recent IMPLAN data available (2018) adjusted for 2020. The IMPLAN modeling system was used to calculate the results of this analysis. The IMPLAN model was constructed so that double counting was avoided. For this report, 20 of the 71 agriculture and agriculture related sectors in Kansas were identified and analyzed to determine their overall contribution to the Stevens County economy.

### Results

These 20 sectors have a total direct output of approximately **\$232.5 million** and account for **768 jobs** in Stevens County. Running the model for all 20 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Stevens County Economy					
Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	768	25%	\$60,700,000	27%	\$232,500,000
Indirect Effect	221	7%	\$15,400,000	7%	\$39,400,000
Induced Effect	92	3%	\$7,100,000	3%	\$13,700,000
<b>Total Effect</b>	<b>1,081</b>	<b>35%</b>	<b>\$83,200,000</b>	<b>37%</b>	<b>\$285,700,000</b>

**NOTE:** Individual effects may not equal the total effect due to rounding.

As shown in the above table, agriculture, food, and food processing sectors support a total of **1,081 jobs**, or **35%** of the entire workforce in the county. The total final sales of all products in these sectors is approximately **\$285.7 million**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of Gross Regional Product (GRP). Total value added by the 20 agriculture, food, and food processing sectors is approximately **\$83.2 million**, or **37%** of the GRP.

## Top Ten Sectors by Employment

Out of the agriculture and agriculture related sectors, support activities for agriculture and forestry is the top employer with **252 jobs**. This table also illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Stevens County.

Sector	Total Employment
Support activities for agriculture and forestry	252
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	157
Grain farming	147
Cotton farming	99
Other real estate	68
Animal production, except cattle and poultry and eggs	47
Truck transportation	39
Wholesale - Other nondurable goods merchant wholesalers	31
Fluid milk manufacturing	24
Landscape and horticultural services	23

## Top Ten Sectors by Output

This table shows how much revenue is generated in other sectors by having a strong agriculture industry, including direct, indirect, and induced effects. The grain farming sector is the top contributor, with approximately **\$99.1 million** to the Stevens County economy.

Sector	Total Output
Grain farming	\$99,100,000
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$62,500,000
Fluid milk manufacturing	\$16,200,000
Cotton farming	\$16,000,000
Animal production, except cattle and poultry and eggs	\$15,600,000
Other real estate	\$8,800,000
Support activities for agriculture and forestry	\$8,700,000
Wholesale - Other nondurable goods merchant wholesalers	\$8,300,000
Oilseed farming	\$7,000,000
Truck transportation	\$6,300,000

## All Direct Sectors

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Stevens County economy. IMPLAN sectors are assigned based on North American Industry Classification System (NAICS) codes. Generally, this analysis includes three categories; production, manufacturing/processing, and services. Note that this analysis does not include wholesale or retail sales of final products, or ethanol production.

Sector	Total Output	Total Employment
Grain farming	\$99,123,939.75	146.53
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$62,538,158.80	156.53
Fluid milk manufacturing	\$16,220,500.35	23.67
Cotton farming	\$15,971,365.92	98.94
Animal production, except cattle and poultry and eggs	\$15,551,902.27	46.57
Support activities for agriculture and forestry	\$8,726,990.06	251.51
Oilseed farming	\$6,983,228.61	2.22
Dairy cattle and milk production	\$4,351,958.97	4.40
Landscape and horticultural services	\$788,359.89	22.73
All other crop farming	\$538,854.55	5.86
Other animal food manufacturing	\$434,902.81	0.41
Greenhouse, nursery, and floriculture production	\$375,044.21	1.63
Bread and bakery product, except frozen, manufacturing	\$249,534.23	2.05
Frozen cakes and other pastries manufacturing	\$166,265.50	2.05
Other snack food manufacturing	\$156,211.61	0.32
Veterinary services	\$130,990.28	1.44
Roasted nuts and peanut butter manufacturing	\$123,816.88	0.31
Poultry and egg production	\$40,874.32	0.03
Commercial logging	\$28,785.11	0.31
Forestry, forest products, and timber tract production	\$20,522.42	0.30

The following terms are used throughout the results shown in this report:

- **Direct effect:** the contribution from agricultural and food products
- **Indirect effect:** the contribution from farms and agricultural businesses purchasing inputs from supporting industries within the state
- **Induced effect:** the contribution from employees of farms, agricultural businesses, and supporting industries spending their wages on goods and services within the state
- **Value added** = labor income + indirect business taxes + other property type income
- **Gross Regional Product** = final demand of households + government expenditures + capital + exports – imports – institutional sales
- **Output** = intermediate inputs + value added
- **Employment:** full-time/part-time annual average i.e., 1 job lasting 12 months = 2 jobs lasting 6 months each = 3 jobs lasting 4 months each. A job is neither full-time nor part-time.
- Due to confidentiality policies that exist within several agencies from which IMPLAN collects their data, some sectors in some regions may not have all data available.

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